

Notice of Allowability

Application No.

10/710,748

Examiner

Chau Nguyen

Applicant(s)

GILES, CHRISTOPHER D.

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to 08/16/2007.
2. ☒ The allowed claim(s) is/are 1-13.
3. ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☐ All b) ☐ Some* c) ☐ None of the:
 1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

4. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 5. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
6. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

1. ☒ Notice of References Cited (PTO-892)
2. ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3. ☐ Information Disclosure Statements (PTO/SB/08),
Paper No./Mail Date _____
4. ☐ Examiner's Comment Regarding Requirement for Deposit
of Biological Material
5. ☐ Notice of Informal Patent Application
6. ☒ Interview Summary (PTO-413),
Paper No./Mail Date _____
7. ☒ Examiner's Amendment/Comment
8. ☒ Examiner's Statement of Reasons for Allowance
9. ☐ Other _____

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Howard Sobelman, Reg. No. 39,038 on 10/23/2007.

The application has been amended as follows:

1. (currently amended) A method for managing electronic forms, said method including:

establishing a connection from a remote device to a host, wherein said host interrogates said remote device to identify remote executable code and remote form components;

causing said host to calculate a first remote hash value for said remote executable code, wherein said first remote hash value is compared with a first host hash value for a corresponding first host executable code;

receiving said host executable code to update said remote executable code to create updated remote executable code, wherein said host executable code is received from said host when said first remote hash value does not match said first host hash

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value and, wherein said remote executable code is not updated when said first remote hash value does match said first host hash value;

updating said remote executable code with said updated host executable code;

causing said host to calculate a second remote hash value for said remote form components, wherein said second remote hash value is compared with a second host hash value for corresponding host form components;

receiving said host form components to update said remote form components to create updated remote form components, wherein said host form components is received from said host when said second remote hash value does not match said second host hash value and, wherein said updated remote form components are used by said updated remote executable code to compile forms and, wherein said remote form components are not updated when said second remote hash value does match said second host hash value;

updating said remote form components with said updated remote form components;

~~receiving, at a said remote device, a plurality of host forms having form fields from a said host;~~

compiling, by said updated remote executable code, a subset of said updated remote form components ~~plurality of host forms~~ based upon a service type selection, wherein said updated remote form components include form fields;

receiving form data into said form fields of said subset of said updated remote form components ~~plurality of host forms~~ to create a plurality of remote forms;

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validating said form data to identify at least one of: missing data and improperly formatted data;

receiving corrected form data when said at least one of: missing data and improperly formatted data is identified;

storing said form data in a remote database; and,
communicating with said host to transmit said form data to said host, thereby causing said host to map said form data to database record fields within a host database, causing said host to ~~calculate data field hash values~~ to determine when a data change to a value in said data field exists and, causing said host to synchronize said host database with said form data when said data change exists.

2. (currently amended) The method of claim 1, further including synchronizing said subset of said host form components ~~plurality of host forms~~ with said remote database.

3. (previously presented) The method of claim 1, further including synchronizing a host application with a remote application.

4. (previously presented) The method of claim 1, wherein causing said host to map includes causing said host to map using pre-determined mapping rules.

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5. (previously presented) The method of claim 1, wherein said step of causing said host to calculate hash values includes:

determining a first hash value based on said form data;

determining a second hash value based on a record of said host database corresponding to said form data; and,

determining whether there is a difference between said first hash value and said second hash value.

6. (original) The method of claim 1, further including verifying credentials of a user of said remote device.

7. (currently amended) The method of claim 1, wherein said compiling further includes arranging said subset of said updated remote form components ~~plurality of host forms~~ according to a predefined order.

8. (previously presented) The method of claim 1, wherein said service type selection includes at least one of retirement account, investment account, line of credit, banking, and insurance.

9. (previously presented) The method of claim 1, further including converting free-hand text entry of said form data into text.

10. (previously presented) The method of claim 1, further including replicating authentication data from said host to said remote device.

11. (previously presented) The method of claim 1, further including replicating customer data from said host to said remote device.

12. (previously presented) The method of claim 1, further including processing said data to verify at least one of spelling and format.

13. (currently amended) A machine-readable medium having stored thereon a plurality of instructions, the plurality of instructions when executed by a processor, cause said processor to perform a method comprising the steps of:

establishing a connection from a remote device to a host, wherein said host interrogates said remote device to identify remote executable code and remote form components;

causing said host to calculate a first remote hash value for said remote executable code, wherein said first remote hash value is compared with a first host hash value for a corresponding first host executable code;

receiving said host executable code to update said remote executable code to create updated remote executable code, wherein said host executable code is received from said host when said first remote hash value does not match said first host hash

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value and, wherein said remote executable code is not updated when said first remote hash value does match said first host hash value;

updating said remote executable code with said updated host executable code;

causing said host to calculate a second remote hash value for said remote form components, wherein said second remote hash value is compared with a second host hash value for corresponding host form components;

receiving said host form components to update said remote form components to create updated remote form components, wherein said host form components is received from said host when said second remote hash value does not match said second host hash value and, wherein said updated remote form components are used by said updated remote executable code to compile forms and, wherein said remote form components are not updated when said second remote hash value does match said second host hash value;

updating said remote form components with said updated remote form components;

~~receiving, at a said remote device, a plurality of host forms having form fields from a said host;~~

compiling, by said updated remote executable code, a subset of said updated remote form components ~~plurality of host forms~~ based upon a service type selection, wherein said updated remote form components include form fields;

receiving form data into said form fields of said subset of said updated remote form components ~~plurality of host forms~~ to create a plurality of remote forms;

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validating said form data to identify at least one of: missing data and improperly formatted data;

receiving corrected form data when said at least one of: missing data and improperly formatted data is identified;

storing said form data in a remote database; and,

communicating with said host to transmit said form data to said host, thereby causing said host to map said form data to database record fields within a host database, causing said host to ~~calculate data field hash values~~ to determine when a data change to a value in said data field exists and, causing said host to synchronize said host database with said form data when said data change exists.

REASONS FOR ALLOWANCE

1. The following is a statement of reasons for the indication of allowable subject matter:

In interpreting the claims in light of the specification and applicant's arguments, the Examiner finds the claimed invention is patentably distinct from the prior art of record.

The prior art of record includes Champagne et al. (Champagne), US Patent Application Publication No. US 2005/0086199, Sherman et al. (Sherman), US Patent No. 6,636,897, Boothby et al. (Boothby), US Patent Application Publication No. US 2002/0048764, Chen et al. (Chen), US Patent Application Publication No. US 2002/0049751, Hunkins et al. (Hunkins), US Patent No. 6,141,663, and Feague et al. (Feague), US Patent Application Publication No. US 2005/0013104.

Champagne discloses transmitting data stored in a plurality of fields of plurality of records of a first database (a host) to a second database (remote device) (page 1, [0009], [0011]). Champagne further discloses the remote database translates (compiles) the records or that only those records fitting particular criteria (page 1, [0014] and page 4, [0045]). Champagne further discloses the records includes name, last name, first name, middle name, address, etc. to create a record structure and the host data transfer program automatically correlates the fields of the records of the remote data base to the fields of the records of the host database (page 3, [0035]-[0036], page 4, [0050]). Champagne further discloses the remote computer sends the host computer

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the record structure data packet and maps the records of remote database to the records of host database (page 3, [0032], page 4, [0043]-[0047]), and then synchronizes the records of host database with the received records of the remote database (page 5, [0060]).

Sherman discloses synchronizing a selected subset of an e-mail folder hierarchy between server and client computing systems by defining the subset of the email folder hierarchy as the group of folders associated with a particular branch of the mail folder hierarchy (col. 7, line 51 – col. 8, line 13).

Boothby discloses information sent to the second computer (remote computer) can include information identifying the deleted records or added records (data change), and the information can also include a code based, which may be a hash number (page 1, [0013] and page 3, [0036]). Boothby further discloses computing a hash number to determine if the computed hash number for the record does not match the hash value of the record in the history file record, the remote segment assumes that the record has been change since the previous synchronization, and therefore, the remote segment sends the host computer the field values including the unique ID and a “changed” flag to be synchronized (page 6, [0067]-[0070]).

Claim 1 is allowed because the prior art of record does not expressly disclose alone or in combination calculate a remote hash value for the remote form components which include form fields or record fields, compare the remote hash value with a host hash value for corresponding host form components, receiving the host form components to update said remote form components to create updated remote form

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components, wherein said host form components is received from said host when said remote hash value does not match said host hash value, wherein said updated remote form components are used by said updated remote executable code to compile forms and wherein said remote form components are not updated when said remote hash value does match said host hash value, and updating said remote form components with said updated remote form components.

2. The dependent claims 2-12 further limit independent claim 1. The independent claim 13 includes similar limitations as the independent claim 1 and therefore is considered allowable for the same reasons set forth for claim 1.

3. Any comments considered necessary by applicant must be submitted no later than the payment of the Issue Fee and, to avoid processing delays, should preferably accompany the Issue Fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Chau Nguyen whose telephone number is (571) 272-4092. The Examiner can normally be reached on Monday-Friday from 8:30 am to 5:30 pm.

If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Doug Hutton, can be reached at (571) 272-4137.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306. On July 15, 2005, the Central Facsimile (FAX) Number will change from 703-872-9306 to 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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